

A DEVICE USING LIGHT EMITTING DIODES FOR PREDICTING THE OPTICAL
DENSITY AND DIAGNOSTIC COLOR OF SUNGLASS OR THERAPEUTIC
LENSES USING CONTRAST SENSITIVITY INFORMATION

Abstract of the Disclosure:

A device using light emitting diodes directed at the patient as a light source for evaluating the appropriate color and density of filters or sunglasses for a patient is disclosed. The device may be used with additional filters or sunglasses to determine what filter or sunglass color and density will provide optimal vision for targets of varying spatial frequency. The device may also be used with additional filters of varying color and density to determine the health of the patient's ocular media.